

PA12 injection molding grade, 30% carbon fiber reinforced, black color.

| Property | Test Condition | Unit | Standard | Value | Value |
|---|-------------------|-------------------|--------------|---------|------------------|
| Rheological properties | | | | D.A.M. | Moisture Content |
| Molding shrinkage, parallel | 60x60x2mm/MT 80°C | % | ISO 294 | | |
| Molding shrinkage, normal | 60x60x2mm/MT 80°C | % | ISO 294 | | |
| Mechanical properties | | | | | |
| Tensile Stress at break | 5 mm/min | MPa | ISO 527-1,-2 | 160 | - |
| Elongation at break | 5 mm/min | % | ISO 527-1,-2 | 2.0 | - |
| Charpy notched impact strength | 23°C | kJ/m ² | ISO 179-1eA | 15.0 | - |
| Flexural modulus | 2 mm/min | MPa | ISO 178 | 13000 | - |
| Flexural strength | 2 mm/min | MPa | ISO 178 | 260 | - |
| Other properties (23°C) | | | | | |
| Density | | g/cm ³ | ISO 1183 | 1.16 | |
| carbon fiber | | % | ISO 3451-1 | 30 | |
| Processing conditions for test specimens | | | | | |
| Injection molding-Melt temperature | | °C | ISO 294 | 250-290 | |
| Injection molding-Mold temperature | | °C | ISO 294 | 80-100 | |
| Drying temperature | | °C | - | 90-100 | |
| Drying time dry air dryer | | h | - | 4 - 6 | |

Disclaimer

Disclaimer for sales products

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Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the colouring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.